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DATE: Wednesday, April 12, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	(p1 or p-1) near5 promoter\$	669
<input type="checkbox"/>	L2	(sar or sara or sar-a or sarr or sar-r or repressor or repressed or aureus or staph or staphylococci or staphylococcus)	109622
<input type="checkbox"/>	L3	L2 same l1	48
		<i>DB=EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L4	000268610	0
<input type="checkbox"/>	L5	00268610	0
<input type="checkbox"/>	L6	268610	4

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L2: Entry 3 of 8

File: DWPI

Oct 20, 2005

DERWENT-ACC-NO: 2002-706985  
DERWENT-WEEK: 200615  
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TITLE: New *sarR* gene from the locus of Staphylococcus aureus, useful for treating gram-positive bacteremia

INVENTOR: CHEUNG, A L ; MANNA, A ; ZHANG, G

## PATENT-ASSIGNEE:

ASSIGNEE

DARTMOUTH COLLEGE

CHEUNG A L

MANNA A

ZHANG G

CODE

DARTN

CHEUI

MANNI

ZHANI

PRIORITY-DATA: 2001US-289601P (May 8, 2001), 2001US-261233P (January 12, 2001), 2001US-261607P (January 12, 2001), 2002US-0043539 (January 11, 2002), 2005US-0063308 (February 22, 2005)

**Search Selected****Search ALL****Clear**

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input checked="" type="checkbox"/> <a href="#">AU 2002243519 A8</a>	October 20, 2005		000	C12Q001/68
<input checked="" type="checkbox"/> <a href="#">WO 200268610 A2</a>	September 6, 2002	E	062	C12N000/00
<input checked="" type="checkbox"/> <a href="#">US 20030114650 A1</a>	June 19, 2003		000	C07H021/02
<input checked="" type="checkbox"/> <a href="#">AU 2002243519 A1</a>	September 12, 2002		000	C12N000/00
<input checked="" type="checkbox"/> <a href="#">US 20050239704 A1</a>	October 27, 2005		000	A61K038/16

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002243519A8	January 11, 2002	2002AU-0243519	
AU2002243519A8		WO 200268610	Based on
WO 200268610A2	January 11, 2002	2002WO-US00877	

US20030114650A1	January 12, 2001	2001US-261233P	Provisional
US20030114650A1	January 12, 2001	2001US-261607P	Provisional
US20030114650A1	May 8, 2001	2001US-289601P	Provisional
US20030114650A1	January 11, 2002	2002US-0043539	
AU2002243519A1	January 11, 2002	2002AU-0243519	
AU2002243519A1		WO 200268610	Based on
US20050239704A1	January 12, 2001	2001US-261233P	Provisional
US20050239704A1	January 12, 2001	2001US-261607P	Provisional
US20050239704A1	May 8, 2001	2001US-289601P	Provisional
US20050239704A1	January 11, 2002	2002US-0043539	Cont of
US20050239704A1	February 22, 2005	2005US-0063308	

INT-CL (IPC): A61 K 38/16; C07 H 21/02; C07 H 21/04; C07 K 14/31; C12 N 0/00; C12 N 1/21; C12 N 15/00; C12 N 15/74; C12 Q 1/68; G01 N 33/53

ABSTRACTED-PUB-NO: WO 200268610A  
BASIC-ABSTRACT:

NOVELTY - An isolated nucleic acid sequence (I), which regulates the expression of virulence determinants in gram-positive bacteria, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

- (1) a vector (II) comprising the nucleic acid sequence;
- (2) a host cell (III) comprising the vector;
- (3) a method (IV) for identifying putative agents that inhibit growth and infectivity of bacteria;
- (4) a method (V) of inhibiting growth and infectivity of bacteria;
- (5) a pharmaceutical composition (VI) for use as an anti-bacterial agent comprising the agent that enhances the expression of the nucleic acid sequence or the activity of the polypeptide that it encodes and a vehicle or the compound identified by the method of (X) or a compound that binds to the P1 promoter region of a sarA gene;
- (6) an isolated polypeptide (VII) that regulates the expression of virulence determinants in gram-positive bacteria;
- (7) a kit (VIII) for identifying the presence of a sarR gene or its product comprising a means for analyzing a biological sample for the presence of the sarR gene or its product;
- (8) a method (IX) of treating a mammal suffering from or susceptible to a gram-positive bacterial infection; or
- (9) a method (X) of screening for lead compounds that inhibit the expression of virulence determinants in gram-positive bacteria.

ACTIVITY - Antibacterial.

No biological data given.

MECHANISM OF ACTION - SarR-Agonist.

USE - The pharmaceutical composition comprising a sarR agonist or a compound capable of selective occupation of a sarA promoter receptor is useful for treating gram-positive bacteremia (claimed).

CHOSEN-DRAWING: Dwg.0/12

TITLE-TERMS: NEW GENE LOCUS STAPHYLOCOCCUS AUREUS USEFUL TREAT GRAM POSITIVE

DERWENT-CLASS: B04 D16

CPI-CODES: B04-C01; B04-E01; B04-E02F; B04-E03F; B04-E08; B04-F0100E; B04-F10B; B04-F10B0E; B04-F10B3; B04-F10B3E; B04-N03A0E; B11-A01; B11-C08E1; B11-C08F; B11-C08F2; B11-C08F4; B11-C08G; B11-C10; B12-K04E; B14-A01B; B14-A01B4; D05-H04; D05-H08; D05-H09; D05-H12A; D05-H12E; D05-H14; D05-H17A6; D05-H18;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*  
Fragmentation Code  
M423 M710 M750 M781 M905 N102 N136 P831 Q233 Q505  
Specfic Compounds  
A00NSA A00NSD A00NSN

Chemical Indexing M1 \*02\*  
Fragmentation Code  
M423 M710 M750 M781 M905 N102 N136 P831 Q233 Q505  
Specfic Compounds  
A012PA A012PD A012PN

Chemical Indexing M1 \*03\*  
Fragmentation Code  
M417 M423 M710 M905 N131 N136 Q233  
Specfic Compounds  
A00GTN

Chemical Indexing M1 \*04\*  
Fragmentation Code  
M417 M423 M710 M750 M781 M905 N102 N136 P831 Q233  
Q505  
Specfic Compounds  
A00H1A A00H1D A00H1N

Chemical Indexing M1 \*05\*  
Fragmentation Code  
M417 M423 M710 M750 M781 M905 N102 N136 P831 Q233  
Q505  
Specfic Compounds  
A00H3A A00H3D A00H3N

Chemical Indexing M6 \*06\*  
Fragmentation Code  
M905 P220 P831 Q233 Q505 R200 R210 R231 R280 R290  
R502 R515 R521 R614 R627 R633 R637 R639

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-200562

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